

Brohm to SDDWNR regarding neutralization and effluent, pore, and solid sample data. 1989-1992

44. soils, legislature bills, and journal article folders.
45. GeoChem proposal letter
46. folder with SDMA, vegetation, remediation, unique lands information

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(From Original Box #96)

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1. Water usage - notes
2. Land Application Area Analysis - disposal of solution via land application. Discussion of Article 74 requirements, groundwater well locations, laboratory results, and technical revision conditions
3. Brohm letter to SDGF&P regarding 1991 wildlife reports
4. Study of the Application of Cyanide in the Mining Industry for Heap Leaching of Low Grade Ore Deposits prepared for St. Joe Mineral Corporation by Consulting Engineers, Inc. November 1986 (various appendices including Draft Operational Manual - Brohm Administrative Record Database July 1990; and Cyanide Water Quality Standards Criteria Digest A Compilation of State/Federal Criteria July 1990)
5. Record of Decision - Castle Mountain Project San Bernardino County, California
6. Correspondence between Brohm and H.C. Osborne and Associates 1992 regarding crushing and agglomeration equipment and practices and test procedures for sulfide test programs.
7. MinVen fax Financial Assurance Bond (copied)
8. Brohm montly report
9. Brohm budget summary
10. Chart of Requirements for records and reporting and inspections. List that Brohm needs to complete and provide to DWNR, DGF&P
11. 1992 Publication of Surface Mine disturbed Lands and Reclamation Acreages Under Chapter 45-6B.
12. Budgets - Proposed vs. actual budgets, proposed budget for expansion, costs for ore reserves, operating costs sulphide project, financial summary, plan of operation, production cost summaries, update to group health, life, and dental insurance with Principle Financial, cash requirements, 1988 Start-Up Production Budget,
13. Letter from Marvin Truhe regarding Adrian Smith's Comments on Botz Reports - and copy of report
14. Vector Engineering, Inc. 1990 letters to Gilt Edge Mine regarding the potential for unsaturated flow due to leakage from Gilt Edge Mine leach pad; evaluation of three possible scenarios leading to CN detection in G-W-2.
15. Operational Manual - April 1990 list of document inventory
16. Black Hills Stream Management Plant 1993 Draft - Department of Game Fish and Parks
17. Reports
  - a. Site Specific Determination of Contaminant Mobility for Fate and Pathways Mobility - January 1988 - Hydrometrics

- b. Soil Analysis for Brohm dated 2/9/1988 by Energy Laboratories
  - c. Brohm Mining Corp Attenuation Capacity of Subsurface Materials for Arsenic – 1988 by Hydrometrics (3 copies)
  - d. Summary of Column Testing Methodology – prepared for Brohm by Hydrometrics 1988
  - e. Waste Rock and Spent Ore Characterization Study prepared for Brohm by Hydrometrics 1988
18. Metallurgical Column Test – Brohm test program, sample location information and results
19. US Forest Service – correspondence between Brohm and USFS circa 1987 regarding the intent to conduct exploration, small tracts, work on unpatented claims, letters from adjacent land owners (some copied)
20. unnamed folder – correspondence between Brohm and SDDWNR regarding implied permit violations, NPDES and wells.
21. Smith, Adrian – statement of qualifications, professional services contract agreement with Brohm, general correspondence with Brohm. Circa 1988
22. Metallurgical Report – F. Lightner – notes and letter report. Discussion of samples collected in the late 1970s and early 1980s (copied)
23. Brohm Mining Corp to SDDWNR. 3/23/1988. Re: Groundwater Discharge Permit Application with copy of completed application
24. WGA Info – S: Dakota – (Western Governor's Association) correspondence between Wharf and SDDWNR and Brohm. Re: installation of two lysimeters in Ross Valley; solid sample analytical procedure – cyanide; project to reduce abandoned mine drainage problems and regulating metallic mineral mining
25. Lost Gulch Well –
- a. pump tests – Brohm and EnecoTech correspondence 1990.
  - b. Water Supply Test Well, Installation and Testing, Lost Gulch Project, Lawrence County, South Dakota prepared for Brohm by EnecoTech and dated 9/21/1989
26. Archaeological Research – map and information sheet (copied)
27. R.O. Spill – Cyanide spill on 5/4/1992 due to a blown hose (40 gpm) – correspondence with SDDENR regarding spill and maps showing contaminated/excavated area
28. Golden Crest / Double Rambow – Pump Test Request – shafts were pumped in 1990. State indicated that an NPDES permit was not required as long as Brohm did not discharge to the state's surface waters. Temporary permit from State for test pumping. Laboratory results. Hydro Search Inc. information. A Water Supply Evaluation letter report from Adrian Brown 1990.
29. Unnamed folder
- a. Letter from GeoChem, Inc. to Brohm 4/23/1990 and work proposal. Attached is a Supplementary Report – Repeat of Leaching SBT on Bulk Soil Composite from Boring GW-14 prepared for Brohm by GeoChem
  - b. Brohm submitted a Status Report and Site Investigation Plan to the SDDWNR on 1/18/1990 – GeoChem prepared report – regards the NOV and Order

- c. Evaluation of Modified Leaching and Neutralization Procedures, as indicated by Lysimeter sampling, Brohm Mining Corp, Heap No. 7 Leaching. By GeoChem (two copies)
- 30. Hazardous Materials Spill Contingency Plan for Gilt Edge Mine by Brohm and submitted to SDDWNR 1988
- 31. State of South Dakota Board of Mineral and Environment DWNr – In the Matter of the Application of Gilt Edge Inc. for a Large-Scale Mining Permit – Transcript of proceedings – Volumes I and II. 1986
- 32. Cumulative Environmental Impact Analysis for the CEE Study Area – Draft – by Browne, Bortz, and Coddington, Inc. 1990
- 33. Heap Leaching in Alaska – A short course sponsored by the Alaska State Legislature DNR 1988
- 34. Brohm Mining Corporation Gilt Edge Sulfide Project, June 3, 1988. Prepared for Brohm by Mintec Inc.
- 35. Cultural Resources Inventory of Monarch Mine Properties for Strawberry Hill Mining Company, Lawrence County, SD. By James K. Haug December 1984.
- 36. correspondence between Brohm and the State regarding water treatment
- 37. Geochemical Study of Leach Pad Neutralization, Brohm Mining Corp, SD. By Laura Damon
- 38. Stibnite Mine map
- 39. Permitting Requirements – various correspondence between Brohm and presiding agencies regarding Brohm's application for a mining permit. Circa late 1980s
- 40. Brohm Mining Corp. Response to Permit Conditions of Nov. 1986
- 41. US Forest Service –
  - a. Joint Review Agreement between SDDWNR and Black Hills National Forest, USDA USFS.
  - b. From USFS to Brohm a memo of understanding for the Gilt Edge Mine Expansion Project.
  - c. Plan of Operations Update – October 1989
  - d. USFS letter to "concerned citizen" 1989
  - e. Correspondence regarding plan of operations, cultural resources, water sampling, Lost Gulch, EIS, remediation, (some copied)

New Box #74 11

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(From Original Box #131)

- 1. USMEX of Alaska, Inc. – Illinois Creek Mine Monthly Reports / Manager's Monthly Reports
  - a. 1997 – July, March, April, May, June,
- 2. Stratheona Mineral Services Limited letter to Brohm dated August 29, 1995 – appended is the Review of the Gilt Edge Project, South Dakota for Repadre Capital Corporation. (copied)
- 3. Mine Evaluation Services – Brohm Mining Corporation – Technical Reserve Audit of the Gilt Edge Gold Mine, Deadwood, South Dakota, USA. Dated May 7, 1990. (three copies)
- 4. Western States Mining and Operators Directory 194-1995 edition
- 5. Caterpillar Performance Handbook Edition 21